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SPECIAL ORDINANCE NO. s-16-92

AN ORDINANCE approving the awarding of Reference #5037 by the City of Fort Wayne, Indiana, by and through its Department of Purchasing and INTERGRAPH CORPORATION for the Water Pollution Control Engineering Department.

NOW, THEREFORE, BE IT ORDAINED BY THE COMMON COUNCIL OF THE CITY OF FORT WAYNE, INDIANA;

SECTION 1. That Reference #5037 between the City of Fort Wayne, by and through its Department of Purchasing and INTERGRAPH CORPORATION for the Water Pollution Control Engineering Department, respectfully for:

the purchase of hardware and software for the GIS system for the Water Pollution Control Engineering Department;

involving a total cost of Thirty-Two Thousand Nine Hundred Five and no/100+/- (\$32,905.00+/-), all as more particularly set forth in said Reference #5037 which is on file in the Office of the Department of Purchasing, and is by reference incorporated herein, made a part hereof, and is hereby in all things ratified, confirmed and approved.

SECTION 2. That this Ordinance shall be in full force and effect from and after its passage and any and all necessary approval by the Mayor.

Genet Braddury
Council Member

APPROVED AS TO FORM AND LEGALITY

J. Timothy Mccaulay, City Attorney

REFERENCE NO.: 5037

DEPARTMENT: WPC ENGINEERING

DATE: 01/14/92

ITEM/SERVICE: HARDWARE/SOFTWARE

ADVERTISED BID: YES

DATES ADVERTISED: 11/22/91 & 11/29/91

DATE OPENED: 12/12/91

WRITTEN QUOTE:

DATE DUE:

VERBAL QUOTE:

SINGLE SOURCE:

NO. OF VENDORS NOTIFIED: 3

NO. OF VENDORS RECEIVING BID: 1

NO. OF VENDORS RETURNING BID: 1

NO. OF VENDORS DISQUALIFIED: 0

NO. OF VENDORS NOT RESPONDING: 0

DATE SENT TO DEPT FOR RECOMM: 12/12/91

DATE RECOMM RECEIVED BACK: 12/31/91

DATE SENT TO LAW DEPARTMENT: 01/02/91

INTRODUCTION DATE: 1/14/92

DISCUSSION DATE: 1/21/92

PASSAGE DATE: 1/28/92

REFERENCE NO. 5037 GIS EXPANSION 12/12/91

ITEM/DESCRIPTION	INTERGRAPH	
HARDWARE	\$22,255.00	
SOFTWARE	\$10,950.00	
HARDWARE MAINT	\$2,196.00	
SOFTWARE SUPPORT	\$1,820.00	
SHIP/INSTALL	\$664.00	*
SYSTEM DISCOUNT	\$4,980.00	
GRAND TOTAL	\$32,905.00	
DELIVERY	90 DAYS	

*DELIVERY FROM HUNTSVILLE

FRONT PAGE/INVITATION TO BID DEPARTMENT OF PURCHASING CITY OF FORT WAYNE, ALLEN COUNTY, INDIANA ONE MAIN STREET - ROOM 350 PHONE 219-427-1101

BID OPENING DATE 12-12-91	BID REFERENCE # _5037
SEALED BIDS SHOULD BE DELIVERED TO DEPA 350, CITY-COUNTY BUILDING UP TO 11:00 DATE.	RTMENT OF PURCHASING, ROOM A.M. ON OR BEFORE OPENING
SEALED BIDS WILL BE OPENED PUBLICLY AT WORKS & SAFETY CONFERENCE ROOM ON THE COUNTY BUILDING. "NO LATE BIDS WILL BE 11:00 A.M. FOR ANY REASON WHATSOEVER".	THIRD FLOOR OF THE CITY-
THIS INVITATION FOR BID IS FOR HARDWAY	RE & SOFTWARE FOR
GEOGRAPHIC INFORMATION SYSTEM (GIS) EX	XPANSION.
AND REQUESTED BY WPC ENGINEERING	
THIS BID REQUIRES A XX 5% BID BOOK CHECK OF ALL BIDDERS.	ND, CERTIFIED OR CASHIER'S
THIS BID REQUIRES A XX 100% PERFO	ORMANCE BOND OF SUCCESSFUL
PROMPT PAYMENT DISCOUNTS WILL BE ALLOWE IF PAID WITHIN DAYS.	D AS FOLLOWS: N/A %
THIS INVITATION IS ISSUED TO ESTABLISH CITY OF FORT WAYNE WITH A COMMODITY OR ACCOMPANYING SPECIFICATIONS.	A CONTRACT TO SUPPLY THE SERVICE IN ACCORDANCE WITH
THE EXECUTION HEREOF BY THE BIDDER IS A CONDITIONS HEREIN AND IN THAT REGARD THE BY SAME AND BE BOUND TO THE AMOUNT OF H NINETY (90) DAYS.	BIDDER AGREES TO BE BOUND
FIRM NAMEIntergrap	ph Corporation
STREET ADDRESS One	Madison Industrial Park
CITY Huntsville	PHCME # (205) 730-2415
* BY Domman 7.	Mank
REPRÉSENTATIVE SI	GNATURE

* Signature is made on the basis of Terms and Conditions for Sale of Intergraph Equipment and Software as executed between the City and Intergraph on August 14, 1991.

BID, OFFER OR PROPOSAL FOR SALE OR LEASE OF MATERIALS

				Date: .	0.			
	Governmental Unit							
	Countys							
3.	Biddor (Firm): Address:							
	City/States							
4.	Telephone Number:							
5.	Agent of Bidder ()	(applicable)		···				
Pursuant ernmental Unit) description, qua	to notices given, in accordance with ntity, unit, unit p	the undersigne the following rice and total	ed offers bld ettachment(s amount.	(s) to) which spi	eclly the	class or	llem numb	_(Gov=
ne nes not oller: said bid. Bidder contified check :	ract will be awarde he items specified ed nor received a i r further agrees th or bond shall be il ntract, the bond or	ass price than at he will not	the price s withdraw hi	tated in hi s bid from	s bid for the offic	the mater	late too	lises the
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City of Fort Wayne Cost Summary Form

Vendor Name:	Intergraph Corporati	on	
specifications agreed that the if such action	and the response and the response city has the right in it specified by the	rnish the GIS expansion ce shown below in accordate attached hereto. It ht to reject any or all best interest. The total bid is exactly \$	ance with the is expressly ids submitted
Hardware Software Hardware Mainte Software Suppor Shipping/Instal Other (System D	llation	\$ 22,255 \$ 10,950 \$ 2,196 \$ 1,820 \$ TBD FOB Huntsville 664 \$ (4,980)	(Installation)
Total		\$32,905	
Delivery can be order.	e made within	90 days from th	ne receipt of
Firm Name: Address:	Intergraph Corporation One Madison Industry Huntsyille, AL 3589	al Park	
By: Title: Date:	Senior Manager, U.S. Dec. 10, 1991	Proposals	

Hardware			Componer	nt Price	Annual Ma	aintenance
Components	Description	Quantity	Unit	Extended	Unit	Extended
IP2020-112 FTIS143	InterPro 2020 36 by 48	1	16,900	16,900	1,692	1,692
FINF422	Non-backlit Thin Ethernet	1	5,000	5,000	504	504
	Transceiver	1	275	275	0	0,
MCBL786	5-Meter Drop Cable	1	. 80	80	0	0
		·				
		<u> </u>				<u> </u>
ubtotal:			22,255	22,255		2,196

Software			Componer	nt Price	Annual M	aintenance
Components	Description	Quantity	Unit	Extended	Unit	Extended
						TO THE STATE OF TH
SGAZ00500	MicroStation 32	1	3,450	3,450	744	744
SJAV05900	Modular GIS Env.					
	System Nucleus	1	7,000	7,000	840	840
SGAZ08100	Network File System	1	500	500	240	240
	·			100		, G A
					1	0
						
in the contract of the contrac						
						1
					* *	
ubtotal:			10,950	10,950		1.820

Support			Compone	nt Price	Annual Ma	intenance
Components	Description	Quantity	Unit	Extended	Unit	Extended
					forgreder gode úter Jústic úter kolfik	
Hard. Maint. Annual	Annual Maintenance	1		2,196	_	
Soft. Supp. Annual	Annual Maintenance	1		1,820		
Shipping/Installation	FOB Huntsville			TBD		.M.
Other	Installation Only		191	664		
See Quote Form		· · · · · · · · · · · · · · · · · · ·				
Detail Sheets		······································	<u> </u>			· · · · ·
1 and 2 for				309		
itemized annual						
maintenance costs.						
		·				
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				1	· · · · · · · · · · · · · · · · · · ·	
System Discount			*	(4,980)		Ų.
Subtotal:				4,680		
Grand Total:				32,905		

Optional			Compone	nt Price	Annual M	aintenance
Components	Description	Quantity	Unit	Extended	Unit	Extended
				·		
FDSK246	670-Megabyte Disk	1	4.900	4,900	492	492
FDSK301	l-Gigabyte Disk	1	5,500	5,500	804	804
FMEM102	16-Megabyte Memory		, , , , , ,	- 3,300	- 004	004
	Upgrade	1	5,600	5,600	648	648
SNAV14016	Informix ESQL/C			1	- 910	040
	Embedded SQL		<u> </u>	T		
	for C	1	1,340	1,340	360	360
E.			- 40			4
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8.						·
						
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otal Optional:			17,340			2,304

CERTIFICATE OF ACTION BY THE BOARD OF DIRECTORS

I, B. Judson Hennington III, Assistant Secretary of Intergraph Corporation, a Delaware corporation ("Company"), do hereby certify that the Board of Directors of the Company, adopted the following resolution as of April 1, 1991, and that, as of the date of this Certificate, such resolution remains in full force and effect:

RESOLVED, that the Company hereby authorizes Norman F. Marsh to execute, deliver, and, where applicable, perform, for and on behalf of the Company, all proposals and contractual documents.

B. Judson Hennington III
Assistant Secretary
Intergraph Corporation

DATE: April 9, 1991

National Union Fire Insurance Company of Pittsburgh, Pa.

Principal Bond Office: 70 Pine Street, New York, N.Y. 10270

POWER OF ATTORNEY

No07-B-08760	
--------------	--

KNOW ALL MEN BY THESE PRESENTS:

That American Home Assurance Company, a New York corporation, and National Union Fire Insurance Company of Pittsburgh, Pa a Pennsylvania corporation, does each hereby appoint

---J. Gregory McCollister, Anne Porter, Luther T. Griffith, Daniel J. Bense, John W. Bradley, Jacqueline M. Schaendorf, Suzanne Mickle: of Atlanta, Georgia---

its true and lawful Attorney(s)-in-Fact, with full authority to execute on its behalf bonds, undertakings, recognizances and other contracts of indemnity and writings obligatory in the nature thereof, issued in the course of its business, and to bind the respect company thereby.

IN WITNESS WHEREOF, American Home Assurance Company and National Union Fire Insurance Company of Pittsburgh. Pa have each executed these presents





this 20 day of March 1991

Mark E. Reagan, Senior Vice President

STATE OF NEW YORK SS.

thereto by authority of his office.

On this 20 day of March 19 91, before me came the above named officer of American Home Assurance Company and National Union Fire Insurance Company of Pittsburgh, Pa., to me personally known to be the individual and officer described herein, and acknowledged that he executed the foregoing instrument and affixed the seals of said corporations

Notary Public, State of New York No. 01-NO4652754
Qualified in Westchester County Term Expires Jan. 31, 492

CERTIFICATE

Excerpts of Resolutions adopted by the Boards of Directors of American Home Assurance Company and National Union Fire Insurance Company of Pittsburgh, Pa. on May 18, 1976:

"RESOLVED, that the Chairman of the Board, the President, or any Vice President be, and hereby is, authorized to appoint Attorneys-in-Fact to represent and act for and on behalf of the Company to execute bonds, undertakings, recognizances and other contracts of indemnity and writings obligatory in the nature thereof, and to attach thereto the corporate seal of the Company, in the transaction of its surety business;

"RESOLVED, that the signatures and attestations of such officers and the seal of the Company may be affixed to any such Power of Attorney or to any certificate relating thereto by facsimile, and any such Power of Attorney or certificate bearing such facsimile signatures or facsimile seal shall be valid and binding upon the Company when so affixed with respect to any bond, undertaking, recognizance or other contract of indemnity or writing obligatory in the nature thereof;

"RESOLVED, that any such Attorney-in-Fact delivering a secretarial certification that the foregoing resolutions still be in effect may insert in such certification the date thereof, said date to be not later than the date of delivery thereof by such Attorney-in-Fact."

I, Maureen P. Tully, Secretary of American Home Assurance Company and of National Union Fire Insurance Company of Pittsburgh, Pa. do hereby certify that the foregoing excerpts of Resolutions adopted by the Boards of Directors of these corporations, and the Powers of Attorney issued pursuant thereto, are true and correct, and that both the Resolutions and the Powers of Attorney are in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the facsimile seal of each corporation





this 10 day of <u>December</u> . 1991

Maureen P. Tully, Secretary

AIÙ Insurance Company
American Home Assurance Company
Granite State insurance Company
The Insurance Company of the State of Pennsylvania
National Union Fire Insurance Company of Pittsburgh, Pa.
New Hampshire Insurance Company



American International Companies

Principal Bond Office 70 Pine Street, New York, N.Y. 10270

BID BOND

(AIA 310)

* L	Intergraph Corporation		, as Principal, and
That			, so , morpon and
	American Home Assurance Comp	anv	, as Surety, are held and firmly bound
unto	The City of Fort Wayne, Fort	Wayne Indiana	, as Obligee, in the sum of
	five percent of total bid		Dollars
	ors, administrators, successors and assigns, jointly an	id severally, firmly by these pre	
WHEREAS, t	he Principal has submitted a bid for <u>Hardware</u>	and Software for	GIS System expansion
_			
good and su the prosecut Principal sha arger amous	with the terms of such bid, and give such bond or fficient surety for the faithful performance of such ion thereof, or in the event of the failure of the ill pay to the Obligee the difference not to exceed at for which the Obligee may in good faith contraction all be nuit and void, otherwise to remain in full force	Contract and for the prompt p Principal to enter such Contr the penalty hereof between t t with another party to perform	ayment of labor and material furnished in act and give such bond or bonds, if the he amount specified in said bid and such
Signed, seale	d and dated December 10, 1991	-	
. <i>j</i>		Intergraph Con	
	(1)		rporation
Hau	Wa & Hauda	By James	W. Dorton Treasurer
Hau	Witness)	James H. Dor	L. Dorton Treasurer
Hau	Witness)	James H. Dor	W. Dorton Treasurer
Bona No 3:		James H. Dor	L. Dorton Treasurer

3. PRIMARY SYSTEM PROPOSAL

In this section, Intergraph utilizes the numbering scheme from the City of Fort Wayne Invitation To Bid (ITB), beginning with item 3.2. Cost sheets, Appendix A, are also included in this section as requested.

• 16 megabytes of dynamic random access memory (DRAM) with parity, expandable to 64 megabytes using 4- or 16-megabyte expansion modules

Color Graphics Subsystem

- Graphics hardware memory mapped to central processing unit with hardware graphics accelerator (GT)
 - Provides a vector update rate of 360,000 2-D vectors per second and 100,000 3-D vectors per second
 - Includes eight raster memory planes (single-buffered)
 - Allows for the display of 256 colors (chosen from a palette of 16.7 million)
- Color display monitor
 - 19-inch, pedestal-mounted display with a resolution of 1184 by 884 pixels (1-megapixel)
 - Refresh rate of 60 hertz
 - Screen angle adjustable over a 20-degree range; tilts forward 5 degrees and backward 15 degrees from the upright position
 - Screen swivel that allows for rotation of 160 degrees to the left or right of center
 - Screen-viewing controls for brightness and contrast
- ANSI/ISO-standard 142-key keyboard
 - Alphanumeric and numeric keypads with 85 full-travel keys
 - 57 membrane keys (47 user-programmable with two commands per key)
 - Optional up/down encoded mode
 - Keyboard angle tilts up 2, 6.5, or 15 degrees from the desk surface
- 3-button mouse
 - 200 pulses per inch with up/down encoded buttons

Input/Output

- Input/output system memory
 - 256-kilobyte erasable programmable read-only memory (EPROM) private to the input/output system

3.2 New GIS Hardware and Software Components and Specifications

3.2.1 New Hardware Components

3.2.1.1 One (1) InterPro 2020 UNIX Workstation

Intergraph proposes the Interpro 2020 Model IP2020-112. This workstation combines excellent performance with affordability. With its single color monitor, the InterPro 2020 is designed to fit easily on the desk-top. By incorporating reduced instruction set computer (RISC) microprocessor architecture, the InterPro 2020 is rated at 16 million instructions per second (MIPS). In addition, the InterPro 2020 is production-ready to run the world's largest selection of integrated applications.

At the heart of the InterPro 2020 is a 2-board system tailored for excellent performance and high reliability. The 2-board set includes a system board, which features a RISC-based central processing unit with powerful Harvard architecture, plus a highly intelligent input/output system and a single in-line memory module (SIMM) system. The second board provides for high-performance graphics.

The core software provided with the InterPro 2020 includes capabilities for screen management, network communications, and various utilities. This environment provides a solid foundation for multi-function processing and more than 900 applications available from Intergraph and third-party vendors. The InterPro 2020 utilizes the CLIX Operating System, a flexible, interactive, computing environment allows for the simultaneous execution of multiple tasks and processes. It includes numerous programs and routines that provide efficient management for multiple system functions and user applications. Easy-to-build-on programs and tools allow for a customized software environment. Standard, executable programs are easy-to-use and efficiently perform tasks in areas such as file and record management, program development, electronic communications, system utilities, and text processing.

The Intergraph product line provides a wide selection of compatible, high-performance peripherals that increase the efficiency of task-specific operations and allow greater resource sharing in a networked environment. The InterPro 2020 externally supports a variety of peripherals, including disk and tape drives, write once read many (WORM) optical disk drives, plotters, printers, digitizers, menu tablets, and compact disk read only memory (CD-ROM) drives. Several surface-expandable, height-adjustable furniture configurations are also available to accommodate the InterPro 2020 monitor and its associated peripherals.

Central Processor and Memory

- 32-bit RISC microprocessor utilizing Harvard architecture
 - Two separate 4-kilobyte cache and memory management units (CAMMUs), one for data and one for instructions, with on-chip floating-point accelerator

- 340-megabyte, 3.5-inch system disk drive
 - 15-millisecond average seek time
- 3.5-inch, dual-density floppy disk drive
 - 1.44-megabyte/720-kilobyte capacity (formatted)
- Three RS-232 communication ports
 - Asynchronous with transfer speeds of 19.2 kilobits per second
- Small Computer Systems Interconnect (SCSI) interface
 - Daisy-chain connection for optional single-ended SCSI devices
- Parallel output port
 - 8-bit parallel, Versatec/differential interface

Communications

- Network
 - IEEE 802.3 (standard Ethernet) or IEEE 802.3A (Thin Ethernet)
 - Local area network (LAN) with a data transfer rate of 10 megabits per second, requires standard network connection components

System Environment

- CLIX Operating System two user license
 - Berkeley Extensions, including
 - Fast File System
 - * Symbolic Links
 - * Sockets
- Looking Glass
- Network Queuing System (NQS)
- InterPlot Nucleus
 - Local screencopies
 - Text plots

- X-Window System
- EMACS Screen Editor
- Intergraph Network Core (INC)
- Transmission Control Protocol/Internet Protocol (TCP/IP)
- Xerox Network System (XNS)

3.2.1.2 One (1) 36" X 48" Nonbacklit Digitizer

Intergraph proposes 36- by 48-Inch Digitizing Table (FTIS143) for source document digitizing, as well as design and edit functions. It consists of a "floating menu", a 12-button cursor, a digitizer, and a drafting table base. The menu tablet accommodates standard and user-definable menus and is used together with the cursor to select and initiate preprogrammed commands. The menu and cursor also serve as a means of directly addressing the screen.

Intergraph developed the floating menu to provide operators with maximum flexibility when using the digitizer surface area. By automatically interpreting menu position, the system allows the user to move the menu anywhere on the digitizer surface during system, use. The digitizer area may also be used to supplement the floating menu with additional menus for special applications or cell and symbol selection. An optional, 3-button stylus that operates simultaneously with the cursor is available.

Functional specifications of the digitizing table include the following:

- Floating menu tablet
 - Area of 12 by 17 inches
 - Direct mounting on digitizer table surface
 - Easy repositioning without interrupting operations
- Cursor
 - Free-floating, absolute tracking device
 - 12 buttons, with 6 pre-assigned and 6 user-definable
 - Interchangeable use on floating menu tablet or directly on table worksurface
- Digitizer
 - Area of 36 by 48 inches
 - Accuracy of 0.010 inch

3.2.1.3 Network Equipment

The Thin Ethernet Transceiver (FINF422) is an IEEE 802.3- and Ethernet Version 2.0-compatible transceiver which allows any of Intergraph Corporation's workstations or hosts to be connected to a Thin Ethernet network. This transceiver, used in conjunction with the Thin Ethernet Cable (MCBL786), includes all necessary hardware to connect an Intergraph Ethernet node to a Thin Ethernet network.

3.2.2 New Software Components

3.2.2.1 One (1) MicroStation **32**

MicroStation 32 (SGAZ00500) is a general-purpose, computer-aided design (CAD) package that meets a broad range of design needs. It runs under CLIX on Intergraph Corporation's integrated family of workstations and is the core graphics software program for a variety of Intergraph applications. MicroStation 32 provides translation-free compatibility with MicroStation on other platforms and with Intergraph Interactive Graphics Design System (IGDS) files. A DXF import/export facility is also provided for communication with other CAD systems.

MicroStation 32 is a 2-D/3-D graphics system for the interactive generation, manipulation, display, and output of graphics data. It is file-based, rather than memory-based, allowing for virtually unlimited file sizes and data protection in case of power loss or system failure.

Drafting Capabilities

MicroStation 32 provides a graphical user interface based on the Open Software Foundation (OSF) Motif standard. It allows commands to be chosen through icon-based tool palettes, pull-down menus, a digitizing tablet menu, or command key-in. Parameters can be entered in easy-to-use dialog boxes. Function keys may also be defined by the user to contain frequently used, user-specified commands. For element manipulation, Micro-Station 32 supports two types of command syntax: an abbreviated syntax for experienced operators and an English-like alternative for new or occasional users. Context-sensitive, on-line help is provided to explain each command in detail.

Other drafting capabilities include element placement and manipulation operations and the ability to undo and redo these commands. Commands are provided to allow the user to undo previous element placement and manipulation commands and to redo the most recently undone command.

MicroStation 32 provides built-in rendering features, including constant, Gouraud, and Phong shading. Hidden line removal is provided to enhance these functions. MicroStation 32 also includes advanced surfacing tools for 3-D modeling.

MicroStation 32 features a user-definable, 32-bit database with more than four billion addressable points in each axis, making it ideal for creating high-precision architectural drawings, mechanical designs, engineering drawings, maps, and other drawings and

designs. Hidden-line removal and patterning capabilities further enhance the detail of these drawings.

Automatic and associative dimensioning offers over 30 commands that support industry dimensioning standards, including: ANSI, ISO, DIM, JIS, AS1100, and BSI. User-definable working units allow the use of abstract coordinate systems. Each MicroStation 32 design file contains 63 drawing layers or "overlays" that can be independently controlled by name. The user can view any combination of the 63 overlays and design or edit their contents. Up to 255 reference files can be attached to the active file for scaling, rotating, or clipping. The software offers flexible display and element symbologies, independent of levels, including line styles, line weights (thickness), and color.

Additional Capabilities

MicroStation 32 provides capabilities for multiple views. On a single-screen workstation, MicroStation 32 provides up to eight views, using the virtual screen or screen-swap capability. On a dual-screen workstation, up to eight views may be displayed simultaneously.

MicroStation 32 supports user-definable macros through the MicroStation Development Language (MDL), an application development and customization facility. The MDL environment is designed so that developers are not dependent on platform-specific compilers or user interface tools. Therefore, MDL applications can be easily ported between MicroStation platforms, and multiple MDL applications from different developers can co-exist without conflict.

MicroStation 32 features dynamic update, which continually displays the element, before it is placed or modified, as it will appear when the final data point is entered. The feature can be enabled or disabled on a per-view basis. Dynamic placement is a generalization of the rubber-band line placement mode offered by many CAD packages. With this total visual feedback technique, the operator sees all of the characteristics of the element (such as color and size), before it is placed, minimizing placement errors and time-consuming corrections.

MicroStation 32 also provides special features tailored for detailing design files. A convenient text editor is provided to fill in and edit text strings and enter-data fields. ASCII files can be edited using any text editor on the workstation and can be included as text in a design file.

An interface is provided to several relational database management systems, including Informix, ORACLE, and Intergraph Corporation's Relational Interface System (RIS).

For output, precision plotting on a variety of pen plotters and other output devices is supported directly by MicroStation 32. Output devices supported include selected IOLine, Houston Instruments, JDL-850 GL Dot Matrix, CalComp, and Hewlett-Packard plotters. In addition to the output devices directly supported by MicroStation 32, the entire range of plotters supported by Intergraph Corporation's InterPlot can be used with the purchase of the appropriate software.

3.2.2.2 One (1) Modular GIS Environment (MGE)

The Modular Geographic Information System Environment System Nucleus (MGE/SX)(SJAV05900), built on MicroStation 32 and the Relational Interface System (RIS), is the foundation for the MGE platform. This comprehensive system provides access to common utilities, applications software, and GIS database(s) while accommodating and complementing all workflows. MGE/SX creates, maintains, and analyzes GIS/mapping databases and provides a flexible set of tools for both production and planning environments.

Features

- Provides a project manager for datasets/databases
- Supports database management (relational database access)
- Includes an application product shell (including custom interfaces)
- Supports geographic locating through indices
- · Performs feature locating through database searches
- Provides display management through indices
- · Maintains distributed data management
- Allows for efficient feature definition and data collection
- Validates, verifies, and cleans up data
- Performs data editing, maintenance, query, and reporting
- Provides user-friendly interfaces to the system, including tutorials, paper menus, keyboard, and cursor menus
- Allows customization through the CLIX command-line interface

Benefits

- Provides a unified environment for all users and applications
- Provides productivity as a standalone station or with multi-node systems
- Grows with application needs by accepting other geographic information system modules
- Orients users to the database automatically

- Provides simple, straightforward data structures for easy manageability
- Allows existing Interactive Graphics Design System (IGDS), MicroStation 32, MicroStation PC, and MicroStation MAC files to be transferred into MGE/SX

3.2.2.3 One (1) Network File System (NFS)

The Network File System (NFS)(SSAZ08100) provides a means to access data which is distributed among various nodes on the same network. It provides transparent file access between computers running under different operating systems across a network, which allows both local and remote file manipulations to be performed simultaneously and independent of the operating system differences.

In the Intergraph environment, users logged onto a workstation may access a file located on other workstations, VAX/MicroVAX-based hosts (server-mode only), or personal computers (client-mode only) without physically copying the file to a local disk.

NFS is defined by a stateless server-client relationship. The server does not remember from one transaction to the next the client, the transaction completed, or the files that were accessed. Because the server is stateless, NFS can be used between a variety of operating systems. Crash recovery is therefore transparent to the user, thus providing failure isolation between servers and clients. If a server should unexpectedly fail, the client would only be affected by a temporary suspension in data transmission until the server recovered. This is also true for the relationship between client failure and server operation.

NFS fully supports file access security to prevent unauthorized file access. System security utilities are provided for both CLIX-, Intergraph Corporation's implementation of AT&T's UNIX System V, Release 3.1, Operating System with Berkeley extensions, and VMS-based files, allowing NFS to establish access authorization for each file.

Features

- Supports file sharing where multiple users can mount and access the same file system concurrently
- Supports multiple operating systems
- Allows access of design files resident on a VAX/MicroVAX-based host workstation

Benefits

- Reduces disk space requirements since only one copy of a file is needed on the network
- Provides data consistency since users on the network can share access to one copy of a file
- Provides security since NFS checks the authorization for each file access operation. (Users can only access files they are allowed to access.)

3.2.3 Miscellaneous Items

No additional hardware, software, or network devices, other than those listed above, will be required to integrate the proposed expansion into the City's existing GIS System.

Delivery and installation of the proposed hardware and software shall be 90 days from receipt of an acceptable purchase order.

4. OPTIONAL HARDWARE AND SOFTWARE

This section follows the organization and numbering sequence of Section 3.2.4 of the Invitation To Bid submitted by The City of Fort Wayne.

3.2.4 Optional Hardware and Software Components

3.2.4.1 One (1) 670 MB External Hard Drive

The 670-Megabyte Disk Drive (FDSK246) is used for storing software and user data for local and/or network access. The disk drive includes a drive motor, power supply, electronics, and a sealed module containing the spindle media, rotary actuator, and start/stop heads. The sealed enclosure of the module provides a contamination-free environment for the recording mechanism. The disk drive has a peak transfer rate of 1.875 megabytes per second and an average seek time of 18 milliseconds.

Features

- · Provides reliable recording through contamination-free, sealed-media design
- Provides support over the industry-standard (ANSI) Small Computer Systems Interconnect (SCSI) bus
- Provides industry-standard physical size and mounting
- Provides industry-standard direct current (DC) power supply requirements

3.2.4.2 One (1) 1 GB External Hard Drive

The 1-Gigabyte Disk Drive (FDSK301) is used for storing software and user data for local and/or network access. The disk drive includes a drive motor, power supply, electronics, and a sealed module containing the spindle media, rotary actuator, and start/stop heads. The sealed enclosure of the module provides a contamination-free environment for the recording mechanism. The disk drive has an average seek time of 16 milliseconds.

Features

- Provides reliable recording through contamination-free, sealed-media design
- Provides support over the industry-standard (ANSI) Small Computer Systems Interconnect (SCSI) bus
- · Provides industry-standard physical size and mounting
- Provides industry-standard direct current (DC) power supply requirements

3.2.4.3 One (1) 16 MB Main Memory Expansion

The 16-Megabyte Memory Upgrade (FMEM102) provides 16 megabytes of additional memory for an Intergraph workstation/server.

3.2.4.4 One (1) Informix-ESQL/C Embedded SQL for C $\,$

Informix-ESQL/C Embedded SQL for C (SNAV14016) allows a programmer to embed Structured Query Language (SQL) database manipulation statements into a C program. This program can then be run through a preprocessor, compiled, linked, and executed.

5. PRODUCT DESCRIPTIONS

This section provides the product descriptions (pamphlets, brochures) requested in the IFB.

seconded by, and duly adopted, read the second	time by
title and referred to the Committee on City Allite City Plan Commission for recommendation) and Public Hearing to be	(and the held after
due legal notice, at the Common Council Conference Room 128, eity- Building, Fort Wayne, Indiana, on , the	
	M., E.S.T.
DATED: 1-14-92 Sandra E. Len	nedy
SANDRA E. KENNEDÝ, CITY (CLERK
Read the third time in full and on motion by seconded by , and duly adopted, placed on its	ung,
PASSED LOST by the following vote:	s pagsage.
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HENRY	
LONG	
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RAVINE	
SCHMIDT	
TALARICO	
DATED: 1-28-92. Sandra E. Kennedy, CITY	CLERK
Passed and adopted by the Common Council of the City of For	rt Wayne,
Indiana, as (ANNEXATION) (APPROPRIATION) (GENERAL	1
(SPECIAL) (ZONING) ORDINANCE RESOLUTION NO. On the State day of January (SEAL) (SEAL)	1-16-92
on the 28th day of fanuary, 1992	
Sandra f. Lennedy	nidu
SANDRA E. KENNEDY, CITY CLERK PRESIDING OFFICER	
Presented by me to the Mayor of the City of Fort Wayne, In	diana, on
the 25d day of January	
at the hour of	
Sandra F. Lenn	edy
SANDRA E. KENNEDY, CITY	CLERK
Approved and signed by me this 3 of day of Homen	
19 12, at the hour of 3:00 o'clock PM., E.S.T.	
PAUL HELMKE, MAYOR	
, Leving statistically construction,	

REPORT OF THE COMMITTEE ON CITY UTILITIES

JANET G. BRADBURY, CHAIRWOMAN SAMUEL J. TALARICO, VICE CHAIRMAN LUNSEY, LONG, GIAQUINTA

REFERRED AN (ORDINANCE) of Reference #5037 by the	(RYSOXXYY) City of F	m) approv	ring the awarding Indiana, by
and through its Departmen for the Water Pollution C	ontrol Eng	ineering Der	partment
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HAVE HAD SAID (ORDINANCE) AND BEG LEAVE TO REPORT BAC	CK TO THE C	MON COUNCE	CONSIDERATION IL THAT SAID
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DATED: 1-28-92

DIGEST SHEET

TITLE OF ORDINANCE:

Special

DEPARTMENT REQUESTING ORDINANCE: Purchasing

SYNOPSIS OF ORDINANCE: An ordinance approving the award of Ref. No. 5037 for the purchase of hardware and software for the GIS system for the Water Pollution Control Engineering Department. The cost reflects the most responsive vendor.

IF NOT LOWEST, WHO WAS AND WHY WERE THEY NOT AWARDED:

EFFECT OF PASSAGE: Computer hardware/software for the City's Geographic Information System.

IF REPLACEMENT, WHAT NECESSITATES:

EFFECT ON NON-PASSAGE: Would be unable to complete the comprehensive sewer facility inventory and mapping requirements for the storm water utility and EPA/NPDES permit process.

PRIOR APPROVAL REQUESTED: NO

DATE:

MONIES INVOLVED: Intergraph Corp.

\$32905.00+/-

192-01-15.

PRICE AGREEMENT:

PURCHASE ORDER: YES

ACCOUNT INFORMATION: WPC Eng.

514-533-S101-4443